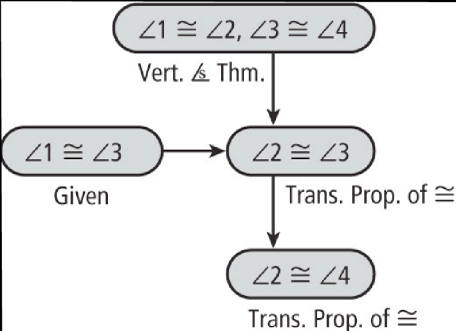
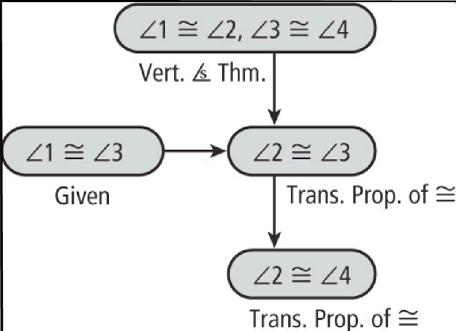


Question	Answer	Solution
1.	$m - 8 = 13$ (Given); $m = 21$ (Add. Prop. of $=$)	$m - 8 = 13$ Given equation $m = 21$ Add. Prop. of $=$
2.	$4y - 1 = 27$ (Given); $4y = 28$ (Add. Prop. of $=$); $y = 7$ (Div. Prop. of $=$)	$4y - 1 = 27$ Given equation $4y = 28$ Add. Prop. of $=$ $y = 7$ Div. Prop. of $=$
3.	$-\frac{x}{3} = 2$ (Given); $-x = 6$ (Mult. Prop. of $=$); $x = -6$ (Div. Prop. of $=$)	$-\frac{x}{3} = 2$ Given equation $-x = 6$ Mult. Prop. of $=$ $x = -6$ Div. Prop. of $=$
4.	Sym. Prop. of $=$	Sym. Prop. of $=$
5.	Reflex. Prop. of \cong	Reflex. Prop. of \cong
6.	Trans. Prop. of \cong	Trans. Prop. of \cong
7.	Trans. Prop. of $=$	Trans. Prop. of $=$
8a.	Given (given information)	Given (given information)
8b.	$\angle 1$ and $\angle 3$ are supp.	$\angle 1$ and $\angle 3$ are supp. (deduce from line 1)
8c.	Reflex. Prop. of \cong	Reflex. Prop. of \cong (reason why $\angle 3 \cong \angle 3$)
8d.	$\angle 1 \cong \angle 4$	$\angle 1 \cong \angle 4$ (apply \cong Supps. Thm. to lines 2 and 3)

Question	Answer	Solution																		
9.	<table><tr><td>1. $\overline{AB} \cong \overline{EF}$</td><td>1. Given</td></tr><tr><td>2. $AB = EF$</td><td>2. Def. of \cong segs.</td></tr><tr><td>3. $EF = AB$</td><td>3. Sym. Prop. of =</td></tr><tr><td>4. $\overline{EF} \cong \overline{AB}$</td><td>4. Def. of \cong segs.</td></tr></table>	1. $\overline{AB} \cong \overline{EF}$	1. Given	2. $AB = EF$	2. Def. of \cong segs.	3. $EF = AB$	3. Sym. Prop. of =	4. $\overline{EF} \cong \overline{AB}$	4. Def. of \cong segs.	<table><tr><th>Statements</th><th>Reasons</th></tr><tr><td>1. $\overline{AB} \cong \overline{EF}$</td><td>1. Given</td></tr><tr><td>2. $AB = EF$</td><td>2. Def. of \cong segs.</td></tr><tr><td>3. $EF = AB$</td><td>3. Sym. Prop. of =</td></tr><tr><td>4. $\overline{EF} \cong \overline{AB}$</td><td>4. Def. of \cong segs.</td></tr></table>	Statements	Reasons	1. $\overline{AB} \cong \overline{EF}$	1. Given	2. $AB = EF$	2. Def. of \cong segs.	3. $EF = AB$	3. Sym. Prop. of =	4. $\overline{EF} \cong \overline{AB}$	4. Def. of \cong segs.
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11.	It is given that $\angle 1 \cong \angle 3$. By Vert. \angle Thm., $\angle 1 \cong \angle 2$ and $\angle 3 \cong \angle 4$. By Trans. Prop. of \cong , $\angle 2 \cong \angle 3$ and thus $\angle 2 \cong \angle 4$.	It is given that $\angle 1 \cong \angle 3$. By Vert. \angle Thm., $\angle 1 \cong \angle 2$ and $\angle 3 \cong \angle 4$. By Trans. Prop. of \cong , $\angle 2 \cong \angle 3$ and thus $\angle 2 \cong \angle 4$.																		